









Combining Indexing, Arrays, Loops A common error is to is to index beyond the end of	
the array Project1 - Form (Code) Form Click Option Explicit Din dwarf(6) As String	Form1 Dopey Where is Sneezy Happy Doc Basthul Grumpy
Private Sub Form, Click() Dim index As Integer index = 1 Do While index <= 7 Print dwarf(index) index = index + 1 Loop End Sub	Nicrosoft Visual Basic Run-time error '9': Subscript out of range Continue End







FIT 100 Mini-Exercise #3

Print out the contents of the array of weights

FIT 100 Mini-Exercise #3 -- Answer

Print out the contents of the array of weights

Dim i As Integer i = 0Do While i <20 Print weights(i) i = i + 1Loop



Worm code • The code for this example is available on the class web under "Example Code" • The first step is to declare two arrays. These hold the x and y coordinates of the center of each of the circles that make up the body of the worm. There are 10 circles in all. Dim inchwormX(9) As Integer, inchwormY(9) As Integer

FIT 100 Worm Programming – Initialization

Initialize the worm on Form load:

```
Private Sub Form_Load()

FillColor = vbGreen

FillStyle = 0

Call initializeWorm(inchwormX(), inchwormY())

Call drawWorm(inchwormX(), inchwormY())

End Sub
```

(small) new concept: using a color constant vbGreen instead of rgb(0,255,0)

pyright University of Washington 1999-200



FIT 100 drawWorm procedure

Private Sub segment(x As Integer, y As Integer) Circle (x, y), 100, vbGreen End Sub

Private Sub drawWorm(x1() As Integer, y1() As Integer) Dim iterate As Integer

Cls

iterate = 0 Do While iterate < 10 Call segment(x1(iterate), y1(iterate)) iterate = iterate + 1

Loop Line (x1(9), y1(9))-(x1(9) + 100, y1(9) - 200), vbGreen End Sub

© Copyright University of Washingto

FIT 100 Making the worm crawl Private Sub Form_Click() Dim index As Integer index = 0 ' make the worm crawl 200 twips in the x direction Do While index < 10 inchwormX(index) = inchwormX(index) + 200 index = index + 1 Loop Call drawWorm(inchwormX(), inchwormY()) End Sub

rsity of Washington 19